



Approval # 20000001(Replaces 970028-U)

Environmental & Regulatory Services Division
Bureau of Storage Tank Regulation
201 West Washington Avenue
P.O. Box 7837
Madison, WI 53707-7837

Wisconsin COMM 10 Material Approval

Equipment	Secondary Containment Aboveground Tank for Flammable Liquids and Flameshield Double Wall Tanks.
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Manufacturer	Lannon Tank Corporation 20134 Main Street P. O. Box 516 Lannon, WI 53046
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Expiration of Approval: December 31, 2002

SCOPE OF EVALUATION

The horizontal and vertical secondary containment aboveground tanks for flammable liquids, with or without integrally welded supports, as manufactured by Lannon Tank Corporation, have been evaluated in accordance with **sections COMM 10.345 (1) and 10.415 (7)(b)** of the Wisconsin Administrative Flammable and Combustible Liquids Code. The evaluation includes the listing of the Flameshield trade mark which meets the 1996 NFPA 30A, paragraph 2-4.5.

DESCRIPTION AND USE

The horizontal and vertical double wall tanks covered by this approval are designed and constructed to meet Underwriters Laboratory Standard 142 for aboveground storage of flammable or combustible liquids. An interstitial monitoring glass may be placed no more than five inches above the bottom of the tank to detect any release from the inner wall.

TESTS AND RESULTS

The inner tank and secondary containment have been tested and listed by Underwriters Laboratories, Inc., in accordance with UL Standard 142. In addition the Steel Tank Institute has tested the Flameshield tank at Southwest Research Testing Laboratories under the SWRI 97-04 test procedure. As a result of this test, the STI has recognized this tank as a licensed Flameshield tank.

LIMITATIONS OF APPROVAL

The double wall tanks are approved for compliance with the secondary containment requirements of **ss. COMM 10.345 (1) and 10.415 (7)(b)** and may be used without a dike, except in the case of public-access waste oil collection. Tanks for public-access waste oil collection shall be provided with a dike in accordance with **s. COMM 10.33**.

Tanks up to 10,000 gallons may be used for vehicle fueling in accordance with **s. COMM 10.415**.

All tanks, regardless of capacity, shall have a minimum total nominal wall thickness (heads and shells) of 7/16 inch. This is typically achieved with an inner wall of 1/4-inch steel and an outer wall of 7-gage steel. This is deemed sufficient to meet the projectile protection requirement in **s. COMM 10.451 (7)(b)**.

Double wall tanks with lesser wall thickness may be used inside a building without a dike, subject to the requirements of **s. COMM 10.335** and **NFPA 31**, if applicable.

The interstitial space shall be monitored for leaks. The monitor must be capable of detecting a leak from anywhere in the inner tank. If an interstitial monitoring glass is used, visibility through the glass shall be maintained.

Compartmentalized tanks shall be constructed with a double bulkhead in accordance with UL Standard 142. The interstitial space between compartments shall be monitored for leaks.

A spill container shall be provided at the fill opening in accordance with **s. COMM 10.415 (12)(a)**.

For tanks located in or adjacent to a traffic area, separate vehicle collision protection shall be provided by a barrier that meets the design requirements specified in **s. COMM 10.415 (8)(a)**.

No attachments may be made to the tank that violate or void the UL listing.

The tank shall be installed to allow full visual inspection of the secondary containment system.

All installation, testing and maintenance of the tank system shall be performed in accordance with the manufacturer's recommendation and all applicable codes. In addition, a qualified technician shall conduct all necessary maintenance and calibration procedures as recommended by the manufacturer to assure continued and proper operation of the system. Inspection must be conducted annually by a qualified technician and all respective documents maintained on site.

The installer shall be certified by the Department in accordance with **chapter Comm 5**. This approval will be valid through December 31, 2002, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the Department. The Wisconsin Material Approval Number must be provided when plans that include this product are submitted for review.

DISCLAIMER

The Department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement not specified in this document.

Reviewed by: _____

Ahmed Ghalib,
Code Consultant

Approval Date: _____

Approved by: _____